

PROCESSES			
1	.Including application of electrical radiant or wave energy to work	22.1	.Hollow work, internal surface treatment
1.1	..Plasma cleaning	22.11	..Pipe, tubing, hose, or conduit
1.2	...Semiconductor cleaning	22.12	...With pressurized fluid or fluid manipulation
1.3	..Semiconductor cleaning	22.13	...With inorganic alkaline material treating agent
2	.For metallic, siliceous, or calcareous basework, including chemical bleaching, oxidation or reduction	22.14	...With organic treating agent (e.g., solvent, surfactant, or reactant yielding soluble product, etc.)
3	..Including acidic agent	22.15	...With steam utilization
4	.Including forming a solidified or hardened coating for cleaning	22.16	..With inorganic salt treating agent
5	.Including melting	22.17	..With inorganic alkaline material treating agent
6	.Using solid work treating agents	22.18	..With pressurized fluid or fluid manipulation
7	..In particulate or comminuted form	22.19	..With organic treating agent (e.g., solvent, surfactant, or reactant yielding soluble product, etc.)
8	..Hollow work, internal surface treatment	23	..Work or work parts movable during treatment
9	..Longitudinally traveling work, of bar, strip, strand, sheet or web form	24	..Movable fluid applying nozzle and/or with plugging or sealing of work passage or opening
10	.Including regeneration, purification, recovery or separation of agent used	25.1	.Work handled in bulk or groups
11	..Gas or vapor form agent condensed or absorbed on work	25.2	..Kitchen or tableware
12	..By distilling, or liquefying vapors of, used agent	25.3	..Food
13	..By crystallizing, precipitating, or eliminating dissolved solids from used agent	25.4	..Manufactured articles
14	.Work in coiled form during treating agent application	25.5	..Work stationary or moved countercurrently
15	.Longitudinally traveling work of bar, strip, strand, sheet or web form	26	.Using sequentially applied treating agents
16	.Including distortion or deformation of work	27	..One a neutralizer for another
17	..Produced by temperature change, centrifugal force, or fluid pressure shock	28	..One an acid or an acid salt
18	.Combined (e.g., automatic control)	29	..One a soap or an alkaline agent
19	.Including work heating or contact with combustion products	30	..Including steam, gaseous agent or temperature feature
20	..Carbon removal (e.g., from engines)	31	.Gas or vapor condensation or absorption oowork
21	.Including use of vacuum, suction, or inert atmosphere	32	.With work or work parts movable during treatment
		33	..Centrifugal force and/or rotated work body
		34	.With treating fluid motion
		35	..Caused by heating
		36	..Plural, separately fed, and either simultaneously applied or admixed, treating fluids
		37	..Gas or vapor blasts or currents

38	.Paints, varnishes, lacquers, or enamels, removal	61	.Sequential work treating receptacles or stations with means to transfer work or fluid-applying devices
39	.Carbon removal		
40	.Oils, grease, tar, or wax removal, by dissolving	62	..With initial work emptying, inverting, orienting or puncturing means
41	.Metal base work, acid treating		
42	.Miscellaneous	63	..With means for treating work other than with fluids, draining or heating
	APPARATUS		
43	.With relatively movable finder and orienter of apertures or passages in work	64 R	..For sheet, web, strand or bar form work, longitudinally traveling
44	.Operating or controlling device engaged and moved by work or separate work holder	64 P	...Photographic
45	..For vehicle or wheel-form work	65	..With screw work conveyor
46	..Devices other than valves (e.g., automatic work counters)	66	..With work transfer from one movable carrier to another
47	...Pumps	67	...Including endless belt type
48	..Endless belt or rotary work carriers	68	....With splash, spray or jet applying means
49	..Through-way work carriers or guides	69	...Between plural rotary carriers on same axis
50	..Plural means to supply or apply plural different fluids separately or admixed	70	..With endless belt work transfer means
51	..With means for moving work or work-holder by fluid impact thereagainst	71	...Horizontal axes
52	..Engaging element having rotary swinging, rocking or pivoted motion	72	....With splash, spray or jet applying means
53	...External and internal fluid applying means	73	.....With work immersing means
54	..External and internal fluid applying means	74	.....With separate movable means to cause fluid motion
55	...External applying jet means	75	...Sequential endless-carrier immersing means
56 R	.Automatic controls	76	..Traversing hoist-type work transfer means
57 R	..With electric control	77	...Curved or non-rectilinear traverse work-path
57 D	...Dishwashing machine	78	..With rotary or swinging work transfer means
57 DL	....With door latch control feature	79	...Axially rotary
56 D	..Dishwashing machine	80	....Turntable type
58 R	.Electrically controlled	81	.....With synchronized or coordinate valve
58 D	..Dishwashing machine	82	..With guide rails, rods or beams for work or work holders
58 DL	...With door latch control feature	83	...Vertical, inclined, curved or movable or with rollers or work immersion means
59	.With work assembling or disassembling means	84	.Plural, separate, work treating or holding receptacles or stations; manual transfer type
60	.With interstation fluid flow means	85	..With movably mounted work holder or receptacle
		86	...For motion during fluid application

87	....Plural, mutually counterbalancing work supports	106	..With heat-generatable liquid-flow pressure means
88	..With fluid supplying or movable applying means	107	..Heat-exchange means external to work-treating chamber, vat or zone
89	...With movable means to cause fluid motion	108	..Recirculation of treating liquid through conduit means
90	...With heater or heat exchanger	109	.With treating fluid purifying or separating means
91	..With valved liquid drain from one or more stations	110	..By filter or strainer only (except work-spraying head)
92	..With detachable work holder or receptacle	111	...With liquid-moving recirculation, or flow reversing, and straining means
93	.With solid agent dissolving or supplying means	112	.With brake or clutch
94.1	.With plural means for supplying or applying different fluids at the same workstation	113	.With alarm, signal, indicating, testing, inspecting, illuminating or display means
95.1	..Means for sequentially applying different fluids	114	.With liquid seal
95.2	...With drying means	115 R	.Combined or convertible
95.3	...Fluid spraying means	115 G	..With garbage grinder
96.1	..With nonimpelling plural way liquid outlet (e.g., two way valve) or nonimpelling liquid outlet control coordinated with other control control coordinated with other control	116	.With means to operate movably interconnected parts of work
97.1	..Coordinated inlet nonimpelling control and noninlet control	117	.Movably mounted fluid-holding receptacles
98.1	..With coordinated or multiple valves	118	..Rocking or rolling, bottom supported or shifting axis
99.1	..Plural fluids applying conduits	119	..Rotary or swinging motion
99.2	...With means for supplying an additive (e.g., liquid detergent)	120	...Horizontal axis only
100.1	...With means for mixing or contacting fluids with each other before applying them	121	...Vertical axis only
102.1	....Having steam, air or gas applying conduit	122 R	.For sheet, web, strand or bar form work, longitudinally traveling
102.2	.....With pressurized air or gas supplying means for fluid movement	122 P	..Photographic
102.3	.....With drying means	123	.For vehicle or wheel form work
103.1	..Having means for recirculating or reversing fluid flows	124	.With endless belt work conveyer
103.2	..Fluid spraying means	125	..With guide rails for work or work holder (not for belt)
103.3	...Movable	126	..With non-endless-belt work conveyer or manipulator
104.1	.Having self cleaning means	127	..With plural endless belts
104.2	.With means for collecting escaping material	128	..With means to release work held on belt
104.3	..Cleaned material	129	..With movably mounted spray or jet applying conduits or nozzle and/or interconnected conveyer and valve
104.4	..Foreign material separated from liquid	130	..With separate movable means to cause fluid motion (e.g., pump, splasher, agitator)
105	.With heating, cooling or heat exchange means	131	..With spray or jet applying conduits or nozzles
		132	.Spiral work path and/or spiral work conveyer (e.g., screw)

133	.With work feeding and/or discharging means	156	..Work support having a float and/or swing drive or bias
134	..Rotary, swinging or pivoted, work support feeding or discharging conveyers (except mere gates or stops)	157	..Rotary, revolving, swinging or oscillating motion work holder or carrier
135	.With means to hold work holder in draining position above treating liquid	158	...With plural work receiving chambers or holders and/or with cover carried by work receiving chamber
136	.Work holder in form of valved plunger	159	....Horizontal axis
137	.With means to movably mount or movably support the work or work support	160	...Carried by pivotally mounted links or levers or by strands
138	..Movably mounted work holder operable by fluid contact	161	...Compound motion
139	...With separate movable splasher or pump	162	...Actuating means extending through or carried by tank cover
140	..Motor operated apparatus	163	...With liquid impeller mounted on work support
141	...Fluid motor or turbine	164	..Work support reciprocated by pivoted links or lever or by strands
142	..Movable support having plural work holders movably mounted thereon (e.g., ferris-wheel type)	165	..Rail or rod form guides for work or work holder
143	..Interconnected tank closure and other movable element	166 R	.For work having hollows or passages
144	..With movably mounted spray or jet applying conduits or nozzles	167 R	..With movably or flexibly mounted spray or jet applying conduits or nozzles
145	...Immovably mounted on movable work support	168 R	...With movable means to cause fluid motion (e.g., pumps)
146	..Interconnected movable work support and valve	168 C	....Conduit cleaner
147	..With movable work support and separate movable means to cause fluid motion (e.g., pump, splasher, agitator)	167 C	...Conduit cleaner
148	...And spray or jet applying conduit or nozzle	169 R	..With movable means to cause fluid motion (e.g., pumps, followers)
149	..Axially rotary chuck, mandrel, rod or axle type holder	169 A	...Automotive parts cleaner
150	..Work of container-form constituting sole liquid holder	169 C	...Conduit cleaner
151	..With spray or jet applying conduits or nozzles	170	..With means to apply fluids both internally and externally
152	...For work having hollows or passages	171	..With plural fluid-supplying pipes
153	...Rotary, pivoted or swinging work holder	166 C	..Conduit cleaner
154	..With non-impelling fluid deflector or baffle	172	.With movably or flexibly mounted spray or jet applying conduits or nozzles
155	..With means to drain from or supply liquid to the tank	173	..As pump or element thereof
		174	..With separate pump, splasher or agitator
		175	...Conduit or nozzle attached to or operatively interconnected with treating chamber closure
		176	...With fluid discharge reaction nozzle

- 177 ..Attached to or operatively
interconnected with treating
chamber closure
- 178 ..Coordinated with valve therefor
- 179 ..Fluid discharge reaction nozzle
- 180 ..With guiding means to restrict
motion to rotation, to
swinging, or to an annular
closed or to a curved path
- 181 ...With motor therefor
- 182 ..With non-impelling fluid
deflector or baffle other than
conduits or nozzles
- 183 ..Movably mounted, adjustable or
removable
- 184 ..With movable means to cause
fluid motion (e.g., pump,
splasher, agitator)
- 185 ..Compound motion
- 186 ..With means to drain from and/or
supply liquid to tank
- 187 ..Pivoted (e.g., rotary swinging
or oscillating)
- 188 ...Motor operated
- 189 ...Movable in annular path that
surrounds work-space
- 190 ...Delivering fluids to work-
space through annular, work-
space-surrounding conduit
- 191 ...Delivering to conduits or
nozzles
- 192 ...Actuating means extending
through or carried by tank
cover
- 193 ...Plural fluid-moving means
(excludes single with plural
vanes)
- 194 ...About horizontal axis
- 195 ..Through or one-way fluid flow
pumps
- 196 ..Vertically reciprocable (e.g.,
dashers)
- 197 ...Actuating means carried by or
extending through tank cover
- 198 ..With spray or jet supplying and/
or applying means
- 199 ..Work circumposable or opposed
fluid-applying jets or plural
pipes
- 200 ..With closable work-treating
chambers
- 201 ..Miscellaneous

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